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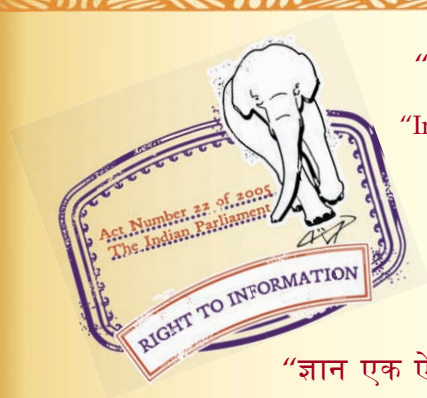
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IS 12517 (1988): Sizes of photographic film for graphic arts use [CHD 5: Electroplating Chemicals and Photographic Materials]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

**SPECIFICATION FOR SIZES OF
PHOTOGRAPHIC FILM FOR GRAPHIC
ARTS USE**

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR SIZES OF PHOTOGRAPHIC FILM FOR GRAPHIC ARTS USE

0. FOREWORD

0.1 This Indian Standard was adopted by the Bureau of Indian Standards on 29 July 1988, after the draft finalized by the Photographic Materials Sectional Committee had been approved by the Chemical Division Council.

0.2 This standard covers the sizes of film both in sheet and roll form for graphic arts use. In the formulation of this standard, considerable assistance has been drawn from ISO/DIS 6407 'Photography —

Black and white film for graphic arts use — Sizes, quantity packaging and labelling', issued by the International Organization for Standardization (ISO).

0.3 In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS : 2-1960*.

*Rules for rounding off numerical values (*revised*).

1. SCOPE

1.1 This standard specifies the sizes of film, both in sheet and roll form, for graphic arts use.

2. DIMENSIONAL STABILITY

2.1 The dimensions and tolerances specified in this standard apply to the film at the time of cutting. Dimensions may alter by a permanent shrinkage due to ageing and by a temporary shrinkage or swelling due to changes in moisture content or temperature. However, at the time of opening the package, the dimensions of the film shall not vary by more than +0.2 to -0.3 percent of the specified dimensions.

3. SIZES

3.1 Sheet Form — The nominal and the actual sizes of the film, in sheet form, for graphic arts use shall conform to the sizes given in Table 1.

3.2 Roll Form — The nominal and the actual sizes of the film, in roll form, for graphic arts use shall conform to the sizes given in Table 2.

4. SQUARENESS OF SHEETS

4.1 Neither diagonal of any sheet of paper shall exceed the diagonal of the rectangular sheet of appropriate maximum cutting length and width, nor shall it be less than the diagonal of a rectangular sheet of appropriate minimum length and width.

TABLE 1 SIZES OF FILMS, IN SHEET FORM, FOR GRAPHIC ARTS USE

(Clause 3.1)

Sl No.	NOMINAL SIZE	ACTUAL SIZE			
		Width		Length	
		Min mm	Max mm	Min mm	Max mm
(1)	(2)	(3)	(4)	(5)	(6)
i)	20.3 × 25.4	200	202	251	253
ii)	25.4 × 30.5	251	253	302	304
iii)	27.9 × 35.6	276	278	353	355
iv)	30.0 × 40.0	297	299	397	399
v)	35.6 × 43.2	353	355	429	431
vi)	35.6 × 45.7	353	355	454	456
vii)	40.0 × 50.0	397	399	497	499
viii)	40.6 × 50.8	403	405	505	507
ix)	50.0 × 60.0	497	499	597	599
x)	50.8 × 61.0	505	507	607	609

TABLE 2 SIZES OF FILMS, IN ROLL FORM, FOR GRAPHIC ARTS USE

(Clause 3.2)

Sl No.	NOMINAL WIDTH mm	ACTUAL WIDTH		NOMINAL LENGTH (metres)
		Min mm	Max mm	
(1)	(2)	(3)	(4)	(5)
i)	508	505	507	30.5
ii)	762	759	761	
iii)	1 016	1 013	1 015	

5. BASIS OF SIZE CHECKING

5.1 Any check of dimensions shall be made on films taken from a previously unopened package.

6. PACKING (SHEET FORM)

6.1 For all sizes, the number of sheets of film for graphic arts use, in a single package shall be 25, 50, 75 or 100 sheets.

7. MARKING

7.1 Each package shall be marked with, besides other normal information, the nominal size of the films contained in it.

7.2 The packages may also be marked with the Standard Mark.

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or processors may be obtained from the Bureau of Indian Standards.

8. SAMPLING**8.1 Films in Sheet Form**

8.1.1 Lot — All the films in sheet form produced

under similar conditions and of the same size shall be put together to constitute a lot.

8.1.2 In order to ascertain the conformity of the lot to the requirements of this specification, the sample shall be tested for various characteristics.

8.1.3 The number of films to be selected from a lot shall be in accordance with col 1, 2 and 3 of Table 3.

8.1.4 The selection of packets from the lot and sheets from the packets shall be done at random and in order to ensure the randomness of selection, the procedure given in IS : 4905-1968* may be followed.

8.1.5 From the selected packages in accordance with col 1 and 2, approximately the same number of sheets shall be selected at random from the packages so as to obtain the required number of sheets as given in col 3.

8.1.6 *Criteria for Conformity* — All the sheets drawn in 8.1.3 shall be tested for dimensional stability, size, squareness of sheets and corner rounding. If any of the sheets fails to satisfy any of these requirements, it shall be termed as defective. The lot shall be declared as conforming to the requirements of this specification if the number of defectives is less than the number given in col 4 of Table 3.

8.2 Films in Roll Form

8.2.1 Lot — All the rolls of same size produced under similar conditions shall be put together to constitute a lot.

*Methods for random sampling.

TABLE 3 NUMBER OF FILMS TO BE SELECTED FOR SAMPLING

(Clause 8.1.3)

LOT SIZE (PACKETS)	NO. OF PACKETS TO BE SELECTED	NO. OF FILMS TO BE SELECTED	ACCEPTANCE NUMBER
(1)	(2)	(3)	(4)
Up to 15	2	8	0
16 to 25	3	13	1
26 to 100	5	20	1
101 and above	8	32	2

8.2.1.1 In order to ascertain the conformity of the lot to the requirements of this specification, the sample shall be tested from each lot separately.

8.2.2 The number of rolls to be chosen from the lot shall depend upon the size of the lot and shall be in accordance with col 1 and 2 of Table 4.

TABLE 4 NUMBER OF ROLLS TO BE SELECTED

Lot Size	NUMBER OF ROLLS TO BE SELECTED
(1)	(2)
Up to 15	2
16 to 25	3
26 to 100	5
101 and above	8

8.2.3 These rolls shall be chosen at random from the lot and in order to ensure the randomness of selection, the procedure given in IS : 4905-1968* may be followed.

8.2.4 Criteria for Conformity — All these samples drawn in 8.2.2 shall be tested for dimensional stability, sizes and squareness of sheets. These tests shall be carried out only at the start of the roll. If any roll fails to satisfy any of these requirements, it shall be termed as defective. The lot shall be declared as conforming to these requirements if none of the samples fails.

8.2.5 The lot shall be declared as conforming to the specification if it satisfies 8.2.4.

*Methods for random sampling.

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones : 3310131, 3311375

Telegrams : Manaksanstha
(Common to all offices)

Regional Offices:

Telephone

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg,
NEW DELHI 110002

3310131, 3311375

*Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola,
CALCUTTA 700054

362499

Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036

21843, 31641

Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113

412442, 412519, 412916

†Western : Manakalya, E9 MIDC, Marol, Andheri (East),
BOMBAY 400093

6329295

Branch Offices:

'Pushpak', Nurmohamed Shaikh Marg, Khanpur, AHMADABAD 380001

26348, 26349

‡Peenya Industrial Area, 1st Stage, Bangalore-Tumkur Road,
BANGALORE 560158

384955, 384956

Gangotri Complex, 5th Floor, Bhadbhada Road, T. T. Nagar,
BHOPAL 462003

66716

Plot No. 82/83, Lewis Road, BHUBANESHWAR 751002

53627

53/5, Ward No. 29, R. G. Barua Road, 5th By-lane, GUWAHATI 781003

33177

5-8-56C L. N. Gupta Marg (Nampally Station Road),
HYDERABAD 500001

231083

R14 Yudhister Marg, C Scheme, JAIPUR 302005

63471, 69832

117/418 B Sarvodya Nagar, KANPUR 208405

216876, 218292

Patliputra Industrial Estate, PATNA 800013

62305

T.C. No. 14/1421, University P.O., Palayam, TRIVANDRUM 695034

62104, 62117

Inspection Offices (With Sale Point):

'Pushpanjali', First Floor, 205A West High Court Road, Shankar Nagar
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*Sales Office in Calcutta is at 5 Chowringhee Approach, P.O. Princep Street,
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